

Carlton PV-Mold

Nonmetallic pole riser system

01 Steel U-guard requires grounding strapping and does not have belled ends.



01

02 PV-Mold has belled ends, flanged design and does not require grounding.



02

Carlton PV-Mold is a nonmetallic pole riser system designed to protect communications power cable installed on poles.

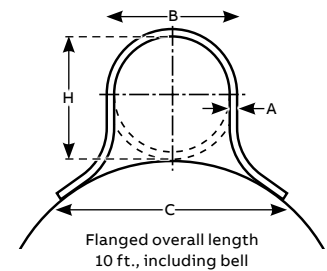
Product specifications

- Meets or exceeds requirements outlined in the National Electric Safety Code (NESC)
- Designed in accordance with NEMA TC-19 specifications
- Ultraviolet, cold-temperature and corrosive-atmosphere resistant
- No grounding required
- Belled end fits over each added section or conduit
- Requires no maintenance
- PV-Mold acts as an insulator against electrical shock
- Interchangeable parts and accessories to match specific requirements

| Size (in.) | Depth of bell (in.) |
|------------|---------------------|
| 1 | 2-2¼ |
| 1½ | 2-2¼ |
| 2 | 2-2¼ |
| 3 | 3-3¾ |
| 4 | 4-4¾ |
| 5 | 4-4½ |
| 6 | 5-5½ |



Diagram



Slots are ½ in. from side to side, and allow for expansion and contraction. Slot dimensions: for sizes 2 in. through 6 in. are ⅝ in. wide, ¾ in. long. Slot dimensions: for 1 in. and 1½ in. are ⅜ in. wide, ¾ in. long. Slot spacing: 18 in. from center, beginning 6 in. from end.

| Cat. no. | Size (in.) | Std. ctn. | Std. ctn. wt. (lb) | Dimensions (in.) | | | | Actual impact at 0 °C 20 pound tup (ft.-lb) |
|-------------------------------|------------|-----------|--------------------|------------------|----------------------------------|----|---------------------------------|---|
| | | | | A | B | C | H | |
| Standard-duty | | | | | | | | |
| 59208N | 1 | 294 | 1,059 | 0.100 | 1⅞ | 2⅞ | 1⅞ | 40 |
| 59211N | 2 | 136 | 726 | 0.100 | 2⅞ | 4½ | 2⅞ | 100 |
| 59213N | 3 | 66 | 761 | 0.150 | 3½ | 6 | 3½ | 110 |
| 59215N | 4 | 65 | 910 | 0.150 | 4½ | 6½ | 4½ | 110 |
| 59216N | 5 | 30 | 515 | 0.150 | 5½ | 7½ | 5½ | 110 |
| Heavy-duty schedule 40 | | | | | | | | |
| 59010N | 1½ | 200 | 1,142 | 0.145 | 22 ²⁹ / ₃₂ | 3½ | 1 ²⁹ / ₃₂ | 100 |
| 59011N | 2 | 136 | 1214 | 0.154 | 2⅞ | 4½ | 2⅞ | 150 |
| 59013N | 3 | 66 | 937 | 0.216 | 3½ | 6 | 3 ⁹ / ₃₂ | 150 |
| 59015N | 4 | 65 | 1621 | 0.237 | 4½ | 6½ | 4½ | 260 |
| 59016N | 5 | 30 | 870 | 0.258 | 5½ | 7½ | 5½ | 260 |
| 59017N | 6 | 30 | 1,160 | 0.280 | 6⅞ | 8¾ | 6⅞ | 260 |

For more information on PV-Mold, contact your regional sales office.

Carlson PV-Mold

PV-Mold installation and fittings

Polyethylene vented boots and adapters

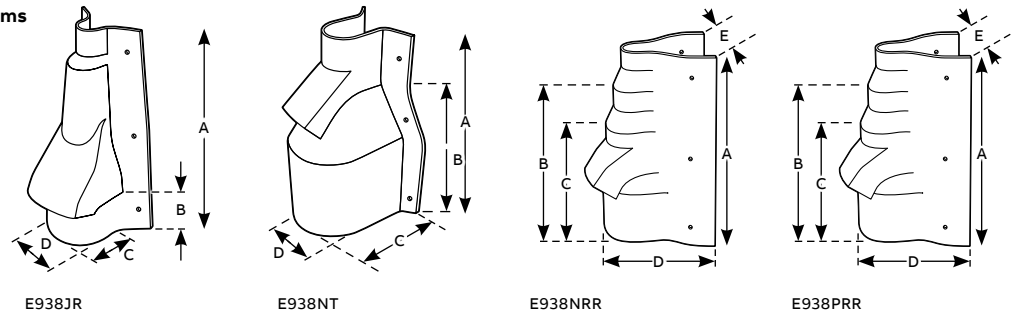
Note:

1. A field cut may be needed to accommodate different boot or adapter to Carlson U-Mold size combinations.
2. Recommendation: 2 sets of mounting holes per boot/fitting. To add mounting holes, use a 3/16 in. drill bit and drill out where needed.
3. When 3 in. or smaller conduit is being used, it's recommended that the bottom (largest section) of the boot or adapter section be buried 2 in. to 3 in. below ground surface.

Vented boots

| Cat. no. | Size (in.) | Dimensions (in.) | | | | | Std. ctn. | Std. ctn. wt. (lb) |
|----------|------------|------------------|-------|-------|-------|-------|-----------|--------------------|
| | | A | B | C | D | E | | |
| E938JR | 2 x 6 | 20.50 | 4.80 | 6.13 | 6.20 | - | 4 | 13.5 |
| E938NT | 4 x 8 | 21.00 | 15.00 | 11.34 | 9.76 | - | 4 | 21.0 |
| E938NRR | 4 x 6 | 20.87 | 16.57 | 12.87 | 11.68 | 11.43 | 6 | 26.4 |
| E938PRR | 5 x 6 | 16.74 | 3.65 | 10.84 | 11.43 | - | 6 | 23.2 |

Diagrams

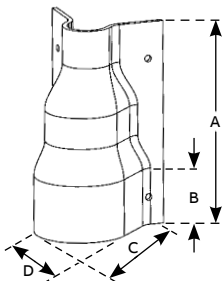


Adapters

| Cat. no. | Size (in.) | Dimensions (in.) | | | | Std. ctn. | Std. ctn. wt. (lb) |
|----------|------------|------------------|------|------|------|-----------|--------------------|
| | | A | B | C | D | | |
| E939JN | 2 x 4 | 11.00 | 6.75 | 5.88 | 5.07 | 8 | 10.0 |
| E939NR | 4 x 6 | 11.00 | 6.75 | 7.08 | 7.13 | 6 | 11.7 |

| Cat. no. | Size (in.) | Dimensions (in.) | | | | | Std. ctn. | Std. ctn. wt. (lb) |
|----------|------------|------------------|------|-------|------|------|-----------|--------------------|
| | | A | B | C | D | E | | |
| E939NRT | 4 x 6 | 19.75 | 4.25 | 12.50 | 8.50 | 7.40 | 63 | 14.0 |

Diagrams e939jn



Diagrams e939jn

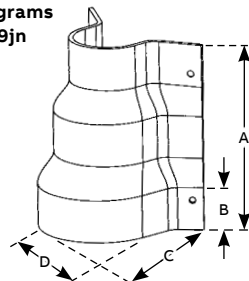
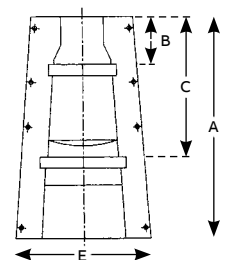



Diagram e939nrt




Carlton PV-Mold

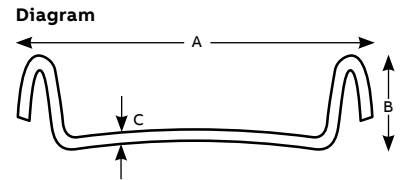
PV-Mold installation and fittings

Duct to riser fittings

| | Cat. no. | Size (in.) | Std. ctn. | Std. ctn. wt. (lb) |
|---|----------|------------|-----------|--------------------|
|  | E939NL | 4 x 3 | 15 | 5.6 |

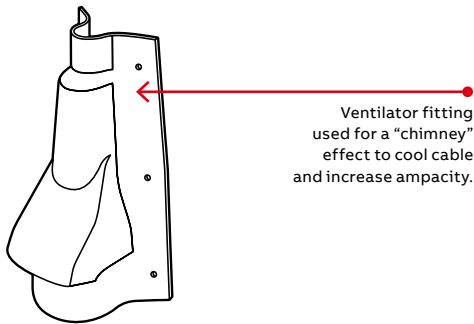
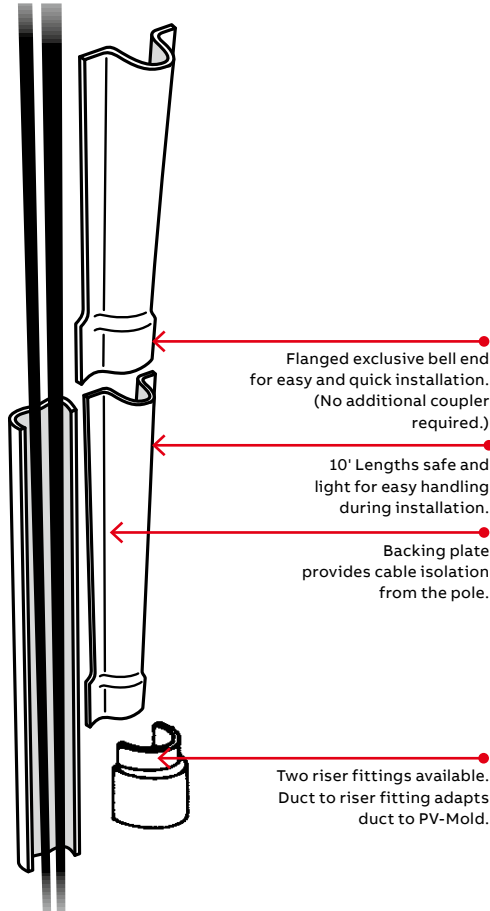
Backing plates

| | Cat. no. | Size (in.) | Length (ft.) | Dimensions (in.) | | | Std. ctn. | Std. ctn. wt. (lb) |
|--|----------|------------|--------------|------------------|-------|-------|-----------|--------------------|
| | | | | A | B | C | | |
|  | 59111 | 2 | 10 | 1/16 | 13/16 | 2 5/8 | 1 | 1.2 |



Carlson PV-Mold

PV-Mold installation instructions



Installation is easy with PV-Mold pole risers:

1. Install ventilator or duct to riser fittings at the base of the pole.
2. Nail backing plate sections to the surface of the pole. Three nail holes are provided in each section. Place the "U" sections over the cable and backing plate, with belled end at the bottom, and attach using ¼ in. lag bolts.

Field installation instructions for Carlson PV-Mold adapters (for adapters E939JN, E939NR, E939NRT)

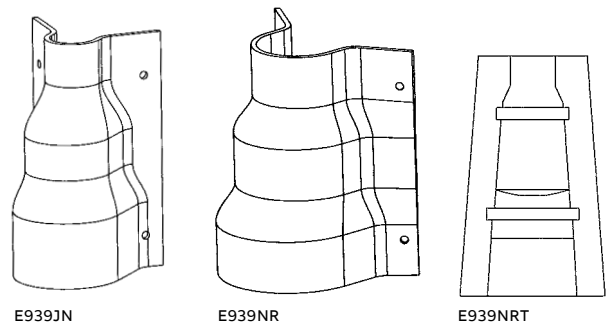
| E939JN | |
|--|---|
| To transition from 4 in. conduit to 2 in. PV-Mold | Place adapter over conduit, attach to pole using the top and bottom mounting holes, place PV-Mold over top section of adapter and secure PV-Mold to pole. |
| To transition from 4 in. conduit to 3 in. PV-Mold | Measure 6.3 in. up from bottom (large end) of adapter and cut. Assemble to pole as described above. |
| To transition from 3 in. conduit to 2 in. PV-Mold* | Measure 4.75 in. up from bottom (large end) of adapter and cut. Assemble to pole as described above. |

| E939NR | |
|--|---|
| To transition from 5 in. conduit to 4 in. PV-Mold | Place adapter over conduit, attach to pole using the top and bottom mounting holes, place PV-Mold over top section of adapter and secure PV-Mold to pole. |
| To transition from 6 in. conduit to 5 in. PV-Mold | Measure 7.25 in. up from bottom (large end) of adapter and cut. Assemble to pole as described above. |
| To transition from 5 in. conduit to 5 in. PV-Mold* | Measure 4.5 in. down from the top of adapter and cut. Assemble to pole as described above. |

| E939NRT | |
|--|--|
| To transition from 6 in. conduit to 4 in. PV-Mold | Place adapter over conduit and attach to pole using the top and bottom mounting holes. Place PV-Mold over top section of adapter and secure PV-Mold to pole. |
| To transition from 6 in. conduit to 5 in. PV-Mold | Measure 5.25 in. down from the top of the adapter and cut. Assemble to pole as described above. |
| To transition from 6 in. conduit to 6 in. PV-Mold* | Measure 9.5 in. up from the bottom of the adapter and cut. Assemble to pole as described above. |

* For these transitions, it is not necessary to cut the adapter if desired. If the adapter is not modified, it is recommended that the bottom 3 in. of the adapter be buried below grade.

Diagrams



Carlton PV-Mold

PV-Mold installation instructions

Field installation instructions for Carlton PV-Mold adapters. For vented boots (E938JR, E938NT, E938NRR, E938PRR).

E938JR

To transition from 5 in. or smaller conduit to 2 in. PV-Mold

Place vented boot over conduit, attach to pole using the top and bottom mounting holes, place PV-Mold over top section of vented boot and secure PV-Mold to pole.

To transition from 5 in. or smaller conduit to 3 in. and larger PV-Mold

For 3 in. PV-Mold: Measure 3.75 in. from the top of the boot and cut. Place the boot over the conduit and attach to the pole. Place belled end of PV-Mold over the top end of the boot and secure.

For 4 in. and 5 in. PV-Mold: Measure 12 in. up from the bottom of the boot and cut. Place the boot over the conduit and attach to the pole. Place the belled end of the PV-Mold against the top edge of the vent protrusion and secure to the pole.

E938NT

To transition from 6 in. to 8 in. conduit to 4 in. PV-Mold

Place boot over conduit and attach to the pole using the mounting holes. Place PV-Mold over top section of vented boot and secure to the pole.

It is recommended that for conduit sizes smaller than 8 in., the bottom 3 in. of the boot be buried below grade. The E938NT can also be used to transition multiple smaller conduits to PV-Mold.

E938NRR

To transition from 6 in. or smaller conduit to 4 in. PV-Mold

Place vented boot over conduit and attach to pole using the top and bottom mounting holes. Place PV-Mold over top section of vented boot and secure PV-Mold to pole.

To transition from 6 in. or smaller conduit to 5 in. PV-Mold

Measure 4.125 in. down from the top of the vented boot and cut. Assemble to pole as described above.

To transition from 6 in. or smaller conduit to 6 in. PV-Mold*

Measure 8.25 in. down from the top of the vented boot and cut. Assemble to pole as described above.

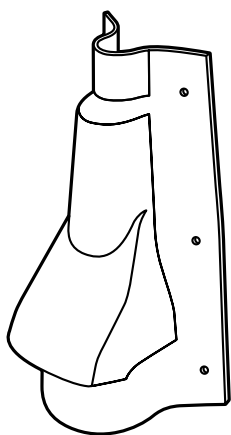
E938PRR

To transition from 6 in. or smaller conduit to 5 in. PV-Mold

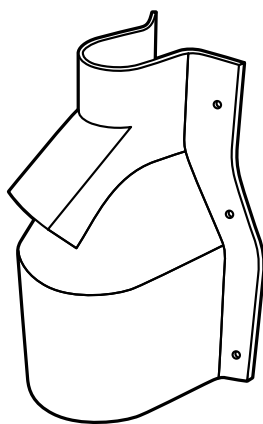
Assemble to pole as described above.

* For these transitions, it is not necessary to cut the adapter if desired. If the adapter is not modified, it is recommended that the bottom 3 in. of the adapter be buried below grade.

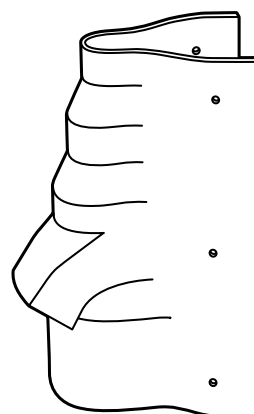
Diagrams



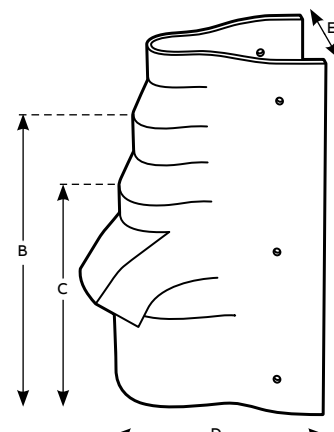
E938JR



E938NT



E938NRR



E938PRR